

Chryso® Daratard R1

Hydration Controlling Admixture

Chryso
Concrete
Solutions

28/08/2026

DESCRIPTION

Chryso®Daratard R1 is a liquid retarding admixture for concrete that temporarily delays cement hydration, enabling extended transportation and placing times for concrete. It can be used with all types of concrete, including sprayed concrete.

The product is formulated from inorganic hydroxylated polymers and conforms to EN 934-2. It is manufactured under controlled conditions to provide consistent performance.

BENEFITS

- Extends concrete transportation and placing times.
- Predictable retardation of setting for up to several days.
- Supports conventional and sprayed concreting in high temperatures.
- Helps eliminate cold joints.
- Helps reduce consistence loss in long-distance pumping applications, particularly when used with ADVA® superplasticisers.

FIELDS OF APPLICATION

Chryso®Daratard R1 is suitable for:

- Ready-mixed concrete.
- Site-batched concrete.
- Sprayed concrete.
- Long-distance concrete transportation.
- Long-distance pumping applications.
- Concrete placement in high-temperature conditions.

Compatibility:

- Can be used with most Portland cements.
- Effective in concrete containing fly ash or ground granulated blastfurnace slag (GGBS).
- Should not be premixed with other admixtures.
- All admixtures should be added separately into the mix.
- For special cements, consultation is recommended.

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Straw coloured
Lifetime	12 months
Equivalent Content Na ₂ O	≤ 8,30 %
Specific gravity	1,190
Freezing Point	-9 °C

PACKAGING

- 15L Container

METHOD OF USE

Dosage :

Dosage Range: 300 ml to 3000 ml per 100 kg cement / 0.30% to 3.00% (v/w) by weight of cement.

The optimum dosage should be determined through preliminary trials using the actual concrete materials.

Application Method

- Supplied ready for use.
- Add during mixing at the same time as the water or aggregates.
- Do not add directly to cement.
- No extension of normal mixing time is necessary.
- Automatic dispensing equipment is preferred.
- Provides predictable retardation of concrete setting, potentially for several days depending on dosage and mix characteristics.
- Hardened concrete may exhibit improved ultimate strength and concrete-to-reinforcement bond strength.
- Does not entrain additional air.
- Carry out preliminary trials to establish optimum dosage rates.
- Assess performance using actual project concrete materials.

PRECAUTIONS

- Store away from extremes of temperature.
- Protect from frost.
- Keep out of direct sunlight and store in shaded conditions.
- If frozen, thaw carefully before mixing.

NORMATIVE AND REGULATORY INFORMATION

Conforms to EN 934-2.

SAFETY

Refer to the relevant Safety Data Sheet (SDS) before use. For further information, please refer to the safety data sheet on our internet site www.uk.chryso.com.

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- 215 L Barrel
- Container of 1000L
- Bulk delivery on request

ADDITIONAL INFORMATION

EFFECTS OF OVERDOSING

- Increased dosage generally produces a considerable increase in set retardation.
- Retardation effects are further increased in cold weather.
- No significant increase in air entrainment is normally observed.
- Stripping times and formwork pressures should be adjusted to account for additional retardation.
- When properly cured, ultimate strength will generally be higher than normal concrete.